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NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

PHOTOGRAPHIC INTERPRETATION REPORT

HULWAN IRON AND STEEL WORKS

EGYPT

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DECEMBER 1971

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INSTALLATION OR ACTIVITY NAME	COUNTRY
Hulwan Iron and Steel Works	EG

UTM COORDINATES	GEOGRAPHIC COORDINATES
NA	29-46-45N 031-19-00E

25X1

MAP REFERENCE

AMS Map, Series 200, Sheet 0447-12, scale 1:200,000

	NEGATION DATE (If required)
	NA

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REQUIREMENT	NPIC PROJECT
None	120102NM

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ABSTRACT

1. Hulwan Iron and Steel Works, the center of the largest integrated industrial complex in the Arab world, is undergoing an expansion which may double its capacity to produce iron and steel. This report describes the iron and steel works and the industrial complex, and gives a chronology of construction. Annotated photographs accompany the text.

BASIC DESCRIPTION AND CONSTRUCTION CHRONOLOGY

2. Hulwan Iron and Steel Works is the center of a large industrial complex in Hulwan, Egypt (Figure 1). The iron and steel works consists of an iron producing area with two iron plants, a steel converting area with two converting plants and a steel processing plant, and a rolling mill area with six mill buildings (Figure 2). The other major elements of the industrial complex are Hulwan Coke Chemical Plant [redacted] Hulwan Chemical Plant [redacted] 25X1
Hulwan Forging Plant [redacted] Hulwan Cement Plant SW [redacted], and At 25X1
Tabbin Thermal Powerplant [redacted]. These plants, with the exception of the cement 25X1
plant, are connected by large diameter pipelines to the iron and steel works, an indication that the plants are interrelated.

3. Construction on the iron and steel works has been continuous since 1955. The construction can be divided into four major time periods:

(1) 1955 - 1960
(2) 1960 - 1964
(3) 1964 - 1969
(4) 1969 - the present.

1955 - 1960

4. The period from 1955 to 1960 encompassed the construction of the original iron and steel works, which became the nucleus of the industrial complex. An iron plant with two blast furnaces, a steel plant, a rolling mill, the thermal powerplant, the cement plant, and a transshipment facility were constructed during this time.

1960 - 1964

5. From 1960 to 1964, the forging plant, a second rolling mill, the coke chemical plant, and a sintering plant were constructed. These plants produce or refine the basic materials for the operation of the blast furnaces, but do not increase steel production capacity. The forging plant probably utilizes the finished products from the steel plant. The coke chemical plant produces coke for the blast furnaces and distills chemicals from coke byproducts, and the sintering plant refines ores for the blast furnaces.

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1964 - 1969

6. The chemical plant and two semicontinuous rolling mills were constructed between 1964 and 1969, completing the industrial complex. The chemical plant produces chemical fertilizer and other chemicals, some of which are possibly used within the iron and steel works. During this time period, emphasis was on increasing the variety of steel products produced and not on increasing iron and steel production capacity. The expansion during this period provided the capability to produce numerous types and sizes of steel products.

1969 - The Present

7. The most significant expansion since the construction of the original iron and steel plant has taken place from 1969 to the present. Most of the construction during this period has been directed towards, increasing the capacity of the plant to produce iron and steel. An analysis of the latest available photography indicated that a blast furnace was under construction at the iron plant, a steel processing plant and a steel converting plant were under construction at the steelworks, and a probable ore bedding plant was under construction west of the chemical plant. These facilities were in various stages of construction, and only major areas of construction (not individual buildings) could be delineated.

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8. Although the expansion of the iron plant has not progressed far the foundations for a new blast furnace and three hot stoves were apparent. (Figure 3). The interior diameter of the new blast furnace is approximately as compared with the of the two existing blast furnaces. This comparison indicates that the ironmaking capacity of the plant could be doubled. Other expansion in the iron plant area includes the construction of a water treatment and coal washing facility, a stock trestle, a possible cooling tower, and at least three support buildings.

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9. In the steelworks expansion area, the steel processing plant was in a midstage of construction and the steel converting plant was in an early stage of construction. A possible heavy fabrication plant was under construction at the processing plant, and a large steel converting building was under construction at the converting plant.

10. The probable ore bedding plant, adjacent to the new blast furnace under construction, was in an early stage of construction. Two additional possible rolling mill buildings, probably for finished products, were under construction in the northern portion of the industrial complex.

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REFERENCES

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MAPS OR CHARTS

AMS Map, Series 200, Sheet 0447-12, scale 1:200,000

REQUIREMENT

NPIC/IEG/SGD/MEAFAB Project 120102NM

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